

CHAPTER 9

TOLERANCES

9-1. Grade and surface-smoothness requirements.

a. Heliport and airfield pavements. The specified grade and smoothness requirements applicable to airfield and heliport pavements are shown in table 9-1. The finished surfaces of airfield and heliport pavements will have no abrupt change of 1/8 inch or more and will not deviate from the testing edge of an approved 10-foot straightedge more than the tolerances shown in table 9-1.

Table 9-1. Surface Smoothness - Airfield and Heliport Pavements

Item No.	Pavement Category	Direction of Testing	Tolerances inches
1	Runways and taxiways	Longitudinal Transverse	1/8 1/4
2	Calibration hardstands and compass swinging bases	Longitudinal Transverse	1/8 1/8
3	All other airfield and heli-copter paved areas	Longitudinal Transverse	1/4 1/4

b. Road, street, and open-storage concrete pavements. Pavements will be smooth and true to grade and cross section. When tested with a 10-foot straightedge on lines 5 feet apart parallel with the center line of the pavement, the surface will not vary more than 1/4 inch from the testing edge of the straightedge.

c. Requirements for other vehicular pavements. Parking-area, motor-pool- and motor-storage area, repair-yard, and open-storage-area pavements will be smooth and true to grade and cross section. When tested with a 10-foot straightedge on lines 5 feet apart parallel with, and at right angles to, the center line of the paved area, the surface will vary not more than 3/8 inch from the testing edge of the straightedge.

9-2. Tolerances in pavement thickness. Pavements will be constructed to thickness indicated, and pavement thickness will be checked by measurements of cores drilled from the pavement as required by the Contracting Officer. Cores generally will be taken at intervals of 2,000 feet or a fraction thereof from each pavement lane of paved area where the lanes are 1,000 feet or more in length and from every other lane of the paved area where the lanes are less than 1,000 feet in length.